Pit Tag Antennas - Hydrofoils

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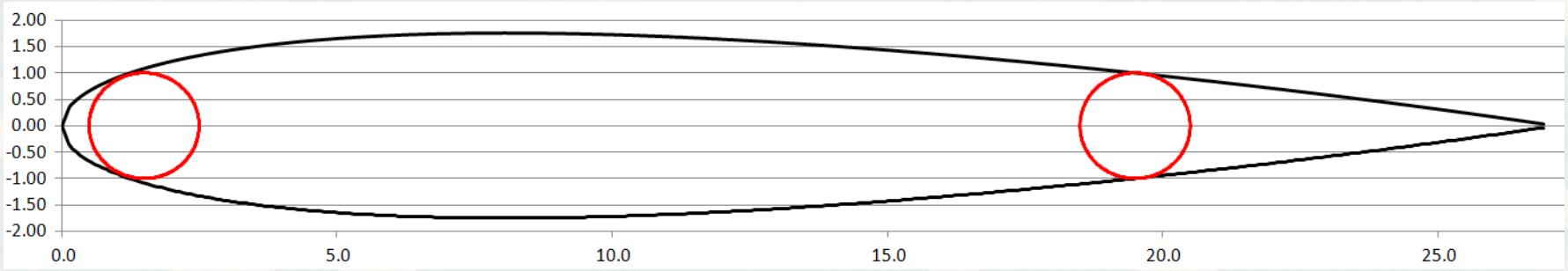
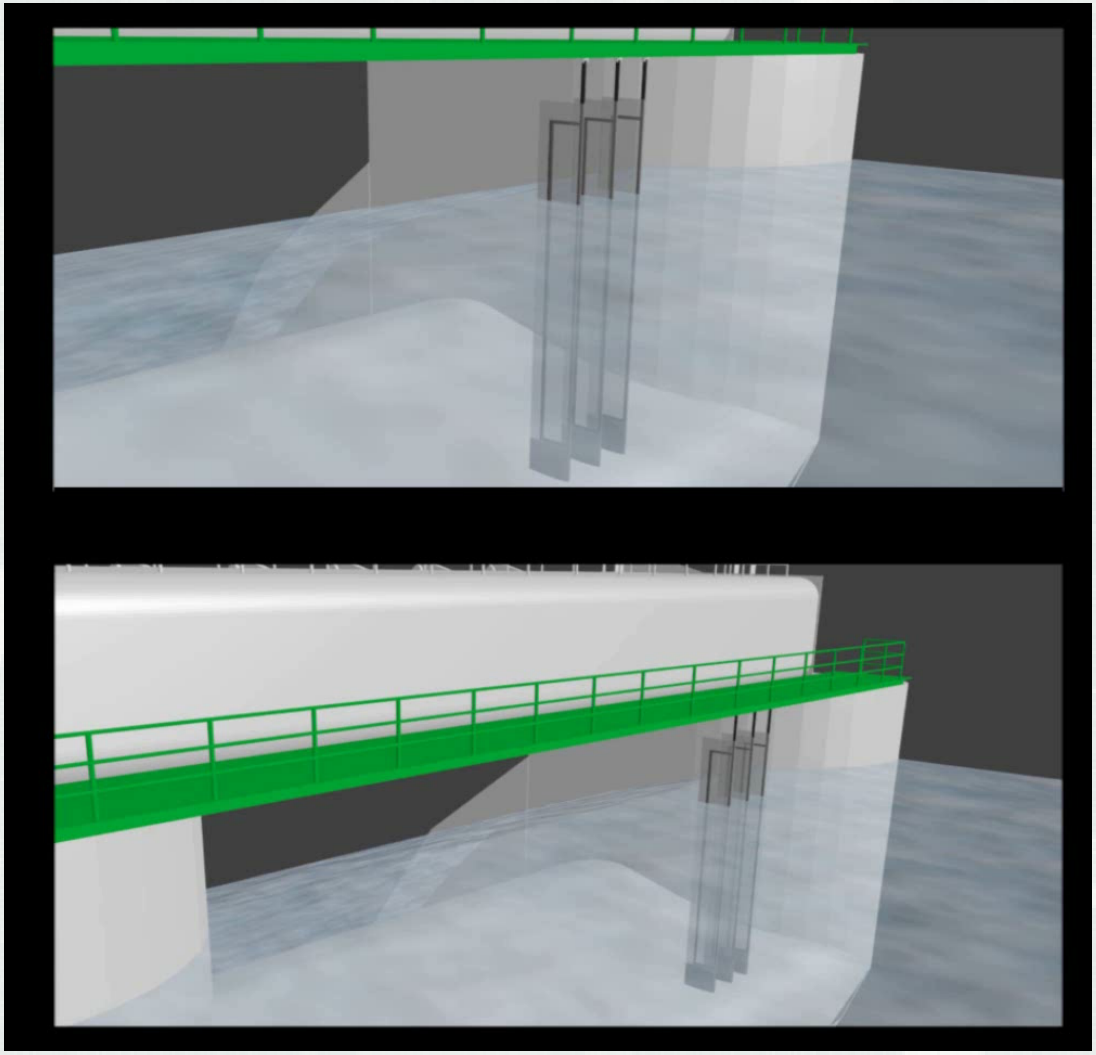
BUILDING STRONG®

The Idea



The Idea



1 to 5 Flume Model

- 2 Hydrofoils
- 16ft deep
- 9.6 fps

1 to 5 Model

0 Sec
Impact
1

1 Sec
Impact
2

1.5 Sec
Sliding
Down

3.5
Debris
Clear

Replicating 1.5 ft followed by 4ft tumbleweed spanning two hydrofoils
Needs 6 seconds to clear.

1 to 5 Model

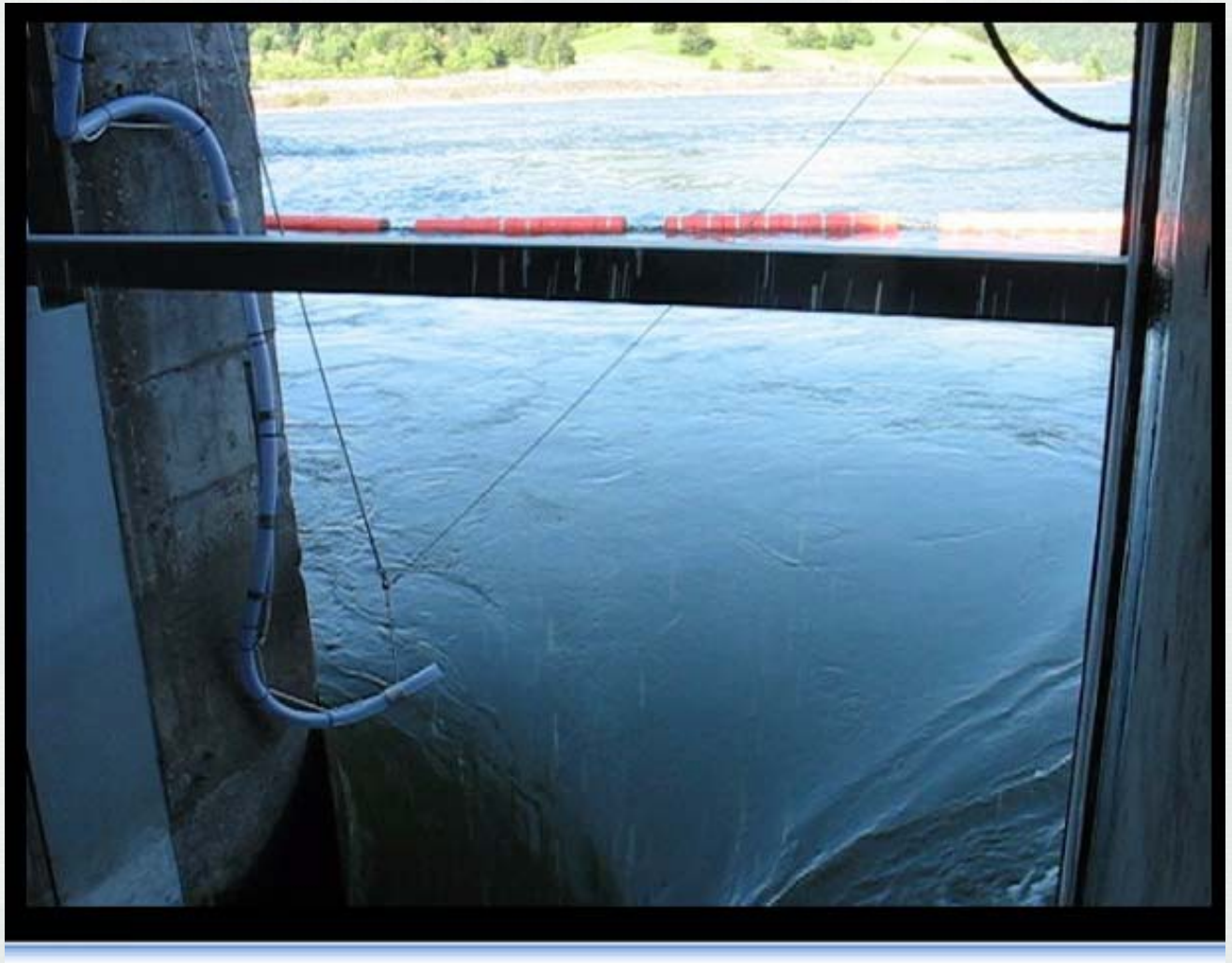
1 to 5 Model - Results

- 20 to 30 times less drag than a pipe
- Minimal weight at base required
- Capable of shedding debris
- Debris interacted with walls

1 to 20 RSW Model

- Uses forebay of Little Goose Sectional
- Replicates Lower Granite RSW entrance
- 16 hydrofoils across entrance
- Identify debris interaction
- Quantify discharge impacts
- Determine lifting beam arrangement
- Model visit Mid to Late March

B2CC - Hydrofoils



B2CC - Hydrofoils

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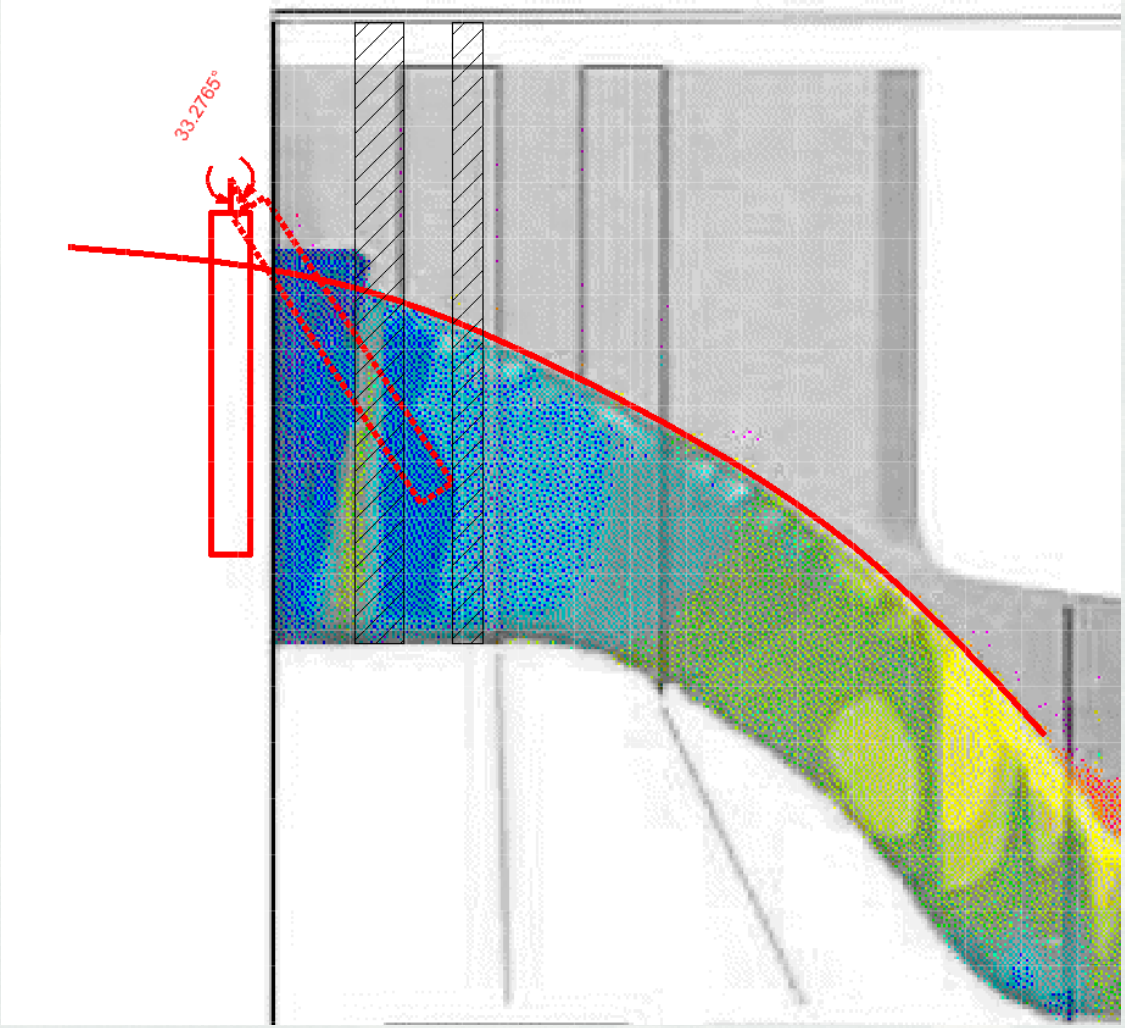
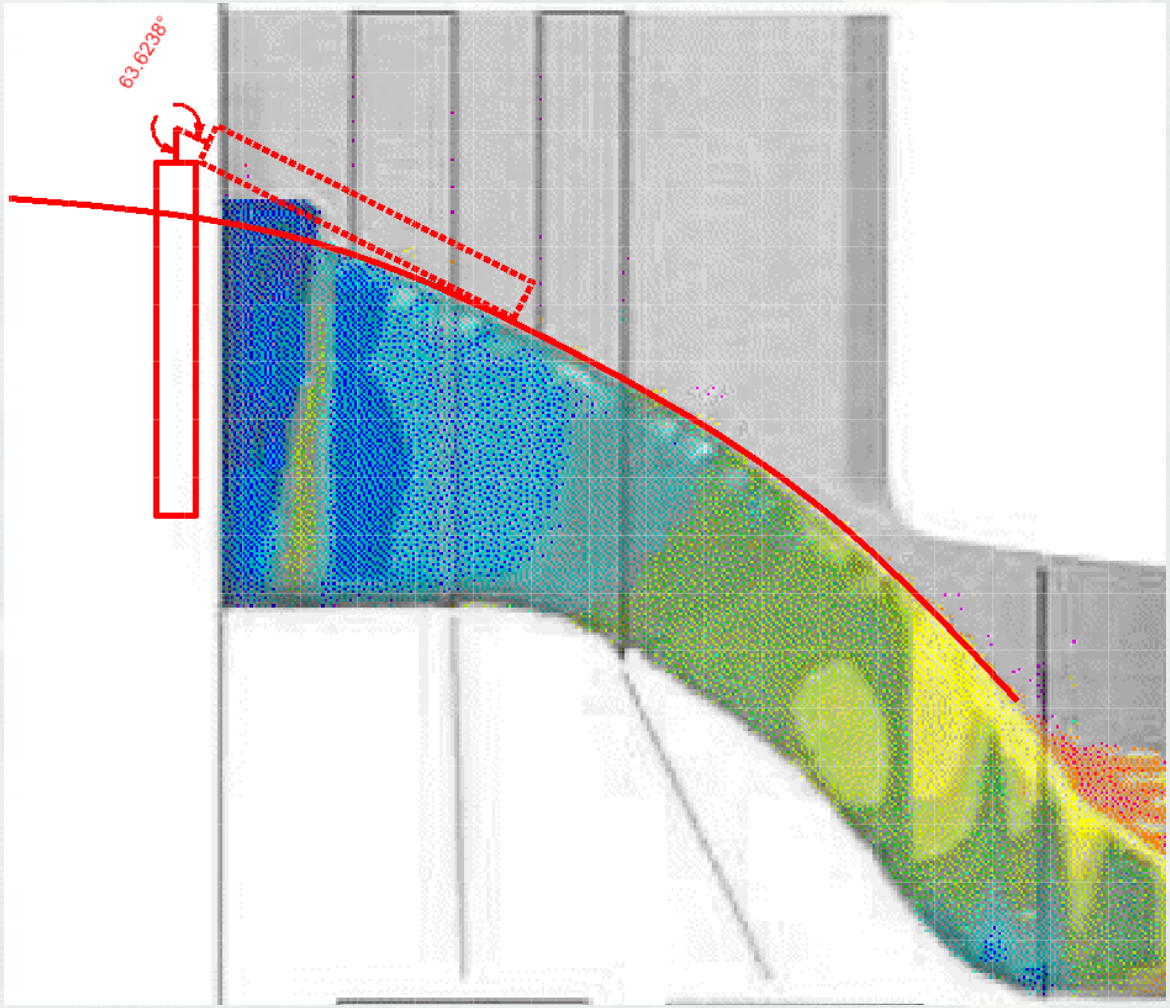
- See PDF file

B2CC - Hydrofoils



B2CC - Hydrofoils



B2CC - Hydrofoils

- Higher velocities
- Aggressive flow lines
- Existing structure may support
- Project impacts still need to be identified
- Need to shut down during install (1 Day)
- Deploy by mid June if no show-stoppers

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- Questions?